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Refining of crude benzol. Zhur. VKHO 5 no.1:18-27 '60.
(MIRA 14:4)

(Benzene)

KOLYANDR, L.Ya.; TYAPTINA, M.I.; RASHKEVICH, I.Ya.; OMELECHKIN, K.S.
ITKINA, R.A.

Composition of crude benzol and the quality of pure products.
Koks i khim. no.4:43-45 '61. (MIRA 14:3)

1. Khar'kovskiy nauchno-issledovatel'skiy uglekhimicheskiy institut (for Kolyandr, Tyaptina). 2. Dnepropetrovskiy koksokhimicheskiy zavod (for Rashkevich, Omelechkin, Itkina).
(Benzene) (Coke industry—By-products)

KOLYANDR, Lev Yakovlevich; SATANOVSKIY, S.ya., otv. red.; BELINA, R.A., red. izd-va; ANDREYEV, S.P., tekhn. red.

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(Coke industry—By-products)

KOLYANDR, L.Ya.; FOMENKO, G.M.; STARKOVA, L.S.

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1. Ukrainskiy uglekhimicheskiy institut.
(Carbon disulfide) (Coke industry--By-products)

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Ways to increase the yield and improve the quality of dicyclopentadiene. Koks i khim. no.12:29-34 '63.
(MIRA 17:1)

1. Ukrainskiy uglekhimicheskiy institut.

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Discussing the article "Removal by adsorption of carbon disulfide in the preparation of high-purity benzene" by V.E.Privalov, A.P.Kolesov, V.Z.Sokolov ("Koks i khimiia," no.2, '62) and of the article "Preparation of sulfur-free benzene from pure benzene by means of chemical purification methods ("Koks i khimiia," no.3, '62) by V.E.Privalov, T.A.IAroslavskaya, N.Kh.Cherkasov, and I.A.Levantovich. Koks i khim. no.2:62-63 '64. (MIRA 17:4)

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2. Bagleyskiy koksokhimicheskiy zavod (for Sorkin, Nekrasov, Mikhno).

A. V. KOLYANINSKIY

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Kohankowsky, D. Sur les sous groupe [illegible] groupes finis. [illegible]
[illegible] (1946) [illegible]

The following [illegible]
non cyclic group [illegible]
it contains at least [illegible]
mutually nonisomorphic [illegible]
the direct product of [illegible]
consequence of this theorem [illegible]
O. Schmidt [same Rec. 31 [illegible]
is solvable if all its proper [illegible]

[illegible] Reviews, [illegible]

BOGDASHEVSKIY, Viktor Ivanovich; DONICH, Konstantin Konstantinovich [deceased]; IOFFE, Veniamin Isaakovich; KLEMPERT, Yakov Emmanuilovich; KOLYANKOVSKIY, Viktor Polikarpovich; KRAINSKIY, Abram Isayevich; POLOTSKIY, Solomon Gertsovich; SVIRSKIY, Solomon Vladimirovich; ANDREYEV, P.A., retsenzent; IVANOV, N.S., retsenzent [deseased]; POMAZKOV, N.S., retsenzent; KRAINSKIY, A.I., nauchn. red.; SHAKHNOVA, V.M., red.; KOROVENKO, Yu.N., tekhn. red.

[Accounting in shipbuilding and machinery manufacturing enterprises] Uchet na sudostroitel'nykh i mashinostroitel'nykh predpriiatiiakh. [By] V.I.Bogdashevskii i dr. Leningrad, Sudpromgiz, 1963. 502 p. (MIRA 17:3)

PODSTRIGACH, Ya.S. [Pidstryhach, IA.S.] (L'vov); KOLYANO, Yu.M. [Koliano, IU.M.] (L'vov)

Two-dimensional temperature problem in the theory of elasticity for a semi-infinite plate in the presence of heat transfer from its surfaces. Prykl. mekh. 9 no.4:398-408 '63. (MIRA 16:8)

1. Institut mashinovedeniya i avtomatiki AN UkrSSR.

KOLYANO, Yu.M.

Temperature field and thermal stresses in a thin semi-infinite plate having an edge heated by a moving external medium. Vop. mekh. real. tver. tela no.3:52-59 '64.

Nonstationary axisymmetric temperature problem in the theory of elasticity of a thin indefinite plate having a circular hole. Ibid.:60-68 (MIRA 17:11)

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Temperature field and thermal stresses in a thin infinite plate heated by heat sources under conditions involving heat transfer. Inzh. fiz. zhur. 7 no.6:72-80 '64. (MIRA 17:12)

1. Institut mashinovedeniya i avtomatiki AN UkrSSR, L'vov.

ACCESSION NR: AP4023368

$$t(x, y, \tau) = \frac{q_0}{8\pi\delta\lambda}\int_0^{\tau} e^{-\kappa^2 a(\tau-\tau_0)-\frac{x^2+(y-v\tau_0)^2}{4a(\tau-\tau_0)}}\frac{d\tau_0}{\tau-\tau_0} =$$

$$= \frac{q_0}{4\pi\delta\lambda}[1+\mu(\varrho, \omega)]K_0(\varrho)e^{-(y-v\tau)\frac{v}{2a}}, \qquad (3)$$

where

$$\varrho = \frac{1}{2a}\sqrt{[v^2+(2a\kappa)^2][x^2+(y-v\tau)^2]}; \qquad \omega = \tau\sqrt{\frac{v^2+(2a\kappa)^2}{x^2+(y-v\tau)^2}}.$$

$\mu(\varrho, \omega)$ is the Ry*kalin function [Ry*kalin, N. N., The thermal bases of welding, part I, Izd-vo AN SSSR, M.-L., 1947], and $K_0(\varrho)$ is a zero-order MacDonald function. The authors also find the corresponding temperature stresses in a thin elastic semi-infinite disk of the form:

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ACCESSION NR: AP4023368

$$X_x = -2Na\int_0^\tau e^{-\varkappa^2 a(\tau-\tau_0)}\left\{\frac{2x^2(3|z_0|^2-4x^2)}{|z_0|^6}+\right.$$

$$+\frac{x[2a(\tau-\tau_0)(4x^2-|z_0|^2)-|z_0|^4]}{2\sqrt{\pi}[a(\tau-\tau_0)]^{3/2}|z_0|^4}+\mathrm{Re}\left[\left(\frac{xz_0}{4a^2(\tau-\tau_0)^2}+\right.\right.$$

$$\left.\left.+\frac{2x+z_0}{z_0^2}-\frac{x+z_0}{2a(\tau-\tau_0)z_0}\right)e^{\frac{z_0^2}{4a(\tau-\tau_0)}}\operatorname{erfc}\left(\frac{z_0}{2\sqrt{a(\tau-\tau_0)}}\right)\right]+e^{-\frac{|z_0|^2}{4a(\tau-\tau_0)}}\times$$

$$\left.\times\left[\frac{|z_0|^2-x^2}{2a(\tau-\tau_0)}-\frac{2x^2}{|z_0|^2}+1\right]\frac{1}{|z_0|^2}\right\}d\tau_0,$$

$$Y_y = 2Na\int_0^\tau e^{-\varkappa^2 a(\tau-\tau_0)}\left\{\frac{2}{|z_0|^6}(4x^2-|z_0|^2)(|z_0|^2-x^2)+\right.$$

$$+\frac{x[2(4x^2-3|z_0|^2)(\tau-\tau_0)a-|z_0|^4]}{2\sqrt{\pi}[a(\tau-\tau_0)]^{3/2}|z_0|^4}+\mathrm{Re}\left[\left(\bar{z}_0 z_0^{-3}+\frac{z_0-x}{2a(\tau-\tau_0)z_0}+\right.\right.$$

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ACCESSION NR: AP4023368

$$+\frac{xz_0}{4a^2(\tau-\tau_0)^2}\Big)e^{\frac{z_0^2}{4a(\tau-\tau_0)}}\operatorname{erfc}\left(\frac{z_0}{2\sqrt{a(\tau-\tau_0)}}\right)\Big]-e^{-\frac{|z_0|^2}{4a(\tau-\tau_0)}}\left[\frac{2x^2}{|z_0|^2}-\right.$$

$$\left.-1+\frac{x^2}{2a(\tau-\tau_0)}\right]\frac{1}{|z_0|^2}\Big\}d\tau_0. \qquad (14)$$

$$X_y=2Nax\int_0^\tau e^{-\nu^2a(\tau-\tau_0)}\left\{\frac{4(y-v\tau_0)}{|z_0|^4}\left[\frac{2x^2}{|z_0|^2}-1-\frac{x}{\sqrt{a\nu}(\tau-\tau_0)}\right]-\right.$$

$$-i\operatorname{Im}\left[\left(\frac{z_0}{4a^2(\tau-\tau_0)^2}-\frac{1}{2a(\tau-\tau_0)z_0}+\frac{2}{z_0^3}\right)e^{\frac{z_0^2}{4a(\tau-\tau_0)}}\times\right.$$

$$\left.\times\operatorname{erfc}\left(\frac{z_0}{2\sqrt{a(\tau-\tau_0)}}\right)\right]+2e^{-\frac{|z_0|^2}{4a(\tau-\tau_0)}}\frac{y-v\tau_0}{|z_0|^3}\left[\frac{1}{4a(\tau-\tau_0)}+\right.$$

$$\left.\left.+\frac{1}{|z_0|^2}\right]\right\}d\tau_0.$$

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where

$$\operatorname{erfc}(u) = 1 - \operatorname{erf}(u) = \frac{2}{\sqrt{\pi}} \int_u^\infty e^{-u_0^2} du_0; \qquad z_0 = x + i(y - v\tau_0).$$

here

$$\operatorname{erf}(u) = \frac{2}{\sqrt{\pi}} \int_0^u e^{-u_0^2} du_0$$

is the probability integral.

The disk is homogeneous and isotropic, and along its border the heat source moves with constant speed. In addition, heat radiation is emitted from the lateral surfaces. As a special case, the following solution is found for the problem of a heat insulated semi-infinite disk:

$$t(x, y, \tau) = \frac{q_0}{8\pi\lambda\delta} e^{-(\rho - v\tau)\frac{v}{2a}} K_0^*(\rho, \omega).$$

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$$X_x = -Na\left\{\frac{4x^2}{v}\left(\frac{y-v\tau}{|z|^4}-\frac{y}{r^4}\right)+\int_0^\tau\left\{\frac{x[2a(\tau-\tau_0)(4x^2-|z_0|^2)-|z_0|^4]}{\sqrt{\pi}[a(\tau-\tau_0)]^{3/2}|z_0|^4}+\right.\right.$$

$$+2\mathrm{Re}\left[\left(\frac{xz_0}{4a^2(\tau-\tau_0)^2}+\frac{2x+z_0}{z_0^2}-\frac{x+z_0}{2a(\tau-\tau_0)z_0}\right)e^{\frac{z_0^2}{4a(\tau-\tau_0)}}\times\right.$$

$$\left.\left.\times\operatorname{erfc}\left(\frac{z_0}{2\sqrt{a(\tau-\tau_0)}}\right)\right]\right\}d\tau_0-\frac{2y}{v^2}e^{-\frac{x^2}{4a\tau}}+\left[\frac{y-v\tau}{|z|}K_{-1}^*(Q,\omega)+\right.$$

$$\left.+K_0^*(Q,\omega)\right]\frac{1}{2a}e^{-\frac{v}{2a}(y-v\tau)}\Bigg\},$$

$$Y_y = Na\left\{\frac{4}{v}\left(\frac{y^2}{r^4}-\frac{(y-v\tau)^2}{|z|^4}\right)+\int_0^\tau\left\{\frac{x[2(4x^2-3|z_0|^2)(\tau-\tau_0)a-|z_0|^4]}{\sqrt{\pi}[a(\tau-\tau_0)]^{3/2}|z_0|^4}+\right.\right.$$

$$+2\mathrm{Re}\left[\left(\bar{z}_0z_0^2+\frac{z_0-x}{2a(\tau-\tau_0)z_0}+\frac{xz_0}{4a^2(\tau-\tau_0)^2}\right)e^{\frac{z_0^2}{4a(\tau-\tau_0)}}\times\right.$$

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ACCESSION NR: AP4023368

$$\times \operatorname{erfc}\left(\frac{z_0}{2\sqrt{a(\tau-\tau_0)}}\right)\Bigg]\Bigg]d\tau_0 - \frac{2y}{v\rho^2}e^{-\frac{\rho^2}{4a\tau}} + \left[\frac{y-v\tau}{|z|}K_{-1}^{*}(Q,\omega) - \right.$$

$$\left. - K_0^{*}(Q,\omega)\right]\frac{1}{2a}e^{-\frac{v}{2a}(y-v\tau)}\Bigg\}, \qquad (15)$$

$$X_y = Nax\left\{\frac{4}{v}\left[\frac{y^2}{\rho^4} - \frac{(y-v\tau)^2}{|z|^4}\right] - 2\int_0^{\tau}\left\{\frac{4x(y-v\tau_0)}{\sqrt{a\pi}(\tau-\tau_0)|z_0|^4} + \right.\right.$$

$$+ i\,\mathrm{Im}\left[\left(\frac{z_0}{4a^2(\tau-\tau_0)^2} - \frac{1}{2a(\tau-\tau_0)z_0} + \frac{2}{z_0^3}\right)\times\right.$$

$$\left.\left.\times e^{\frac{z_0^2}{4a(\tau-\tau_0)}}\operatorname{erfc}\left(\frac{z_0}{2\sqrt{a(\tau-\tau_0)}}\right)\right]\right]d\tau_0 - \frac{2}{v\rho^2}e^{-\frac{\rho^2}{4a\tau}} +$$

$$\left. + \frac{1}{2a|z|}e^{-\frac{v}{2a}(y-v\tau)}K_{-1}^{*}(Q,\omega)\right\},$$

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where

$$\varrho = \frac{v}{2a}|z|; \quad \omega = \frac{v\tau}{|z|}; \quad z = x + i(y - v\tau); \quad r = \sqrt{x^2 + y^2};$$

$$\omega_1 = \frac{v\tau_1}{|z|}; \quad K_m(\varrho, \omega) = \int_0^\infty \omega_1^{m-1} \exp\left[-\frac{\varrho}{2}\left(\omega_1 + \frac{1}{\omega_1}\right)\right] d\omega_1, \quad m = 0, -1.$$

The following formulas are obtained for determing the temperature field and the temperature stresses under asymptotic heat conditions in a semi-infinite, heat-insulated disk in non-stationary coordinates which move along with the source at a constant speed;

$$t(x_1, y_1) = \frac{q_0}{4\pi\lambda\delta} e^{-\frac{vx_1}{2a}} K_0\left(\frac{vr_1}{2a}\right),$$

$$X_x = -Na\left\{\frac{4x_1^2 y_1}{vr_1^4} + \int_0^\infty \left\{2\mathrm{Re}\left[\left(\frac{x_1 z_1}{4a^2\tau_1^2} + \frac{2x_1 + z_1}{z_1^3} - \frac{x_1 + z_1}{2a\tau_1 z_1}\right) e^{\frac{z_1^2}{4a\tau_1}} \times\right.\right.$$

$$\times \operatorname{erfc}\left(\frac{z_1}{2\sqrt{a\tau_1}}\right)\Big] + \frac{x_1\left[2a\tau_1\left(4x_1^2 - |z_1|^2\right) - |z_1|^4\right]}{\sqrt{\pi}\,(a\tau_1)^{3/2}\,|z_1|^4}\Big\}\,d\tau_1 +$$

$$+\left[K_0\left(\frac{ar_1}{2a}\right) + \frac{y_1}{r_1}K_1\left(\frac{ar_1}{2a}\right)\right]e^{-\frac{ar_1}{2a}}\Big\},$$

$$Y_y = Na\left\{-\frac{4y_1^3}{ar_1^4} + \int_0^\infty\left\{2\mathrm{Re}\left[\left(\bar{z}_1 z_1^{-3} + \frac{z_1 - x_1}{2a\tau_1 z_1} + \frac{x_1 z_1}{4a^2\tau_1^2}\right)e^{\frac{z_1^2}{4a\tau_1}} \times \right.\right.\right. \quad (16)$$

$$\times \operatorname{erfc}\left(\frac{z_1}{2\sqrt{a\tau_1}}\right)\Big] + \frac{x_1\left[2\left(4x^2 - 3|z_1|^2\right)\tau_1 a - |z_1|^4\right]}{\sqrt{\pi}\,(a\tau_1)^{3/2}\,|z_1|^4}\Big\}\,d\tau_1 +$$

$$+\left[\frac{y_1}{r_1}K_1\left(\frac{ar_1}{2a}\right) - K_0\left(\frac{ar_1}{2a}\right)\right]e^{-\frac{ar_1}{2a}}\Big\}.$$

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$$X_y = Nax_1\left\{-\frac{4y_1^2}{\sigma r_1^4} - 2\int_0^\infty\left\{\frac{4x_1(y_1+\sigma\tau_1)}{\sqrt{a\pi\tau_1}|z_1|^4} + i\,\mathrm{Im}\left[\left(\frac{z_1}{4a^2\tau_1^2} - \frac{1}{2ax_1\tau_1} + \right.\right.\right.\right.$$

$$\left.\left.\left.\left. + \frac{2}{z_1^2}\right)e^{\frac{z_1^2}{4a\tau_1}}\operatorname{erfc}\left(\frac{z_1}{2\sqrt{a\tau_1}}\right)\right]\right\}d\tau_1 + \frac{1}{ar_1}K_1\left(\frac{\sigma r_1}{2a}\right)e^{-\frac{\sigma y_1}{2a}}\right\},$$

where K_1 is a first order MacDonald function, and

$$r_1 = \sqrt{x_1^2 + y_1^2}, \qquad z_1 = x_1 + i(y_1 + \sigma\tau_1).$$

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Finally, the following solution to the problem is obtained for a stationary source under stationary heat conditions:

$$t = \frac{q_0}{4\pi\lambda\delta} K_0(\varkappa r), \tag{18}$$

$$X_x = -\pi N \left\{ \mathrm{Re}\left[\left(\frac{1}{\varkappa\rho} + \frac{2x}{\rho^2\varkappa} - \varkappa x \right) (H_1(\varkappa\rho) - Y_1(\varkappa\rho)) - \right.\right.$$
$$\left. - \left(1 + \frac{x}{\rho}\right)(H_0(\varkappa\rho) - Y_0(\varkappa\rho)) \right] + \frac{2\varkappa x}{\pi} + \frac{4x^2(3y^2 - x^2)}{\pi\varkappa^2 r^6} -$$
$$\left. - \frac{2}{r^2\pi} \left[\frac{x^2 - y^2}{\varkappa r} K_1(\varkappa r) - y^2 K_0(\varkappa r) \right] \right\},$$

$$Y_y = \pi N \left\{ \mathrm{Re}\left[\left(\frac{2x}{\rho^2\varkappa} - \varkappa x - \frac{1}{\rho\varkappa} \right) (H_1(\varkappa\rho) - Y_1(\varkappa\rho)) + \right.\right.$$
$$\left. + (H_0(\varkappa\rho) - Y_0(\varkappa\rho)) \left(1 - \frac{x}{\rho}\right) \right] + \frac{2\varkappa x}{\pi} + \frac{4(3x^2 - y^2)y^2}{\pi\varkappa^2 r^6} - \tag{19}$$

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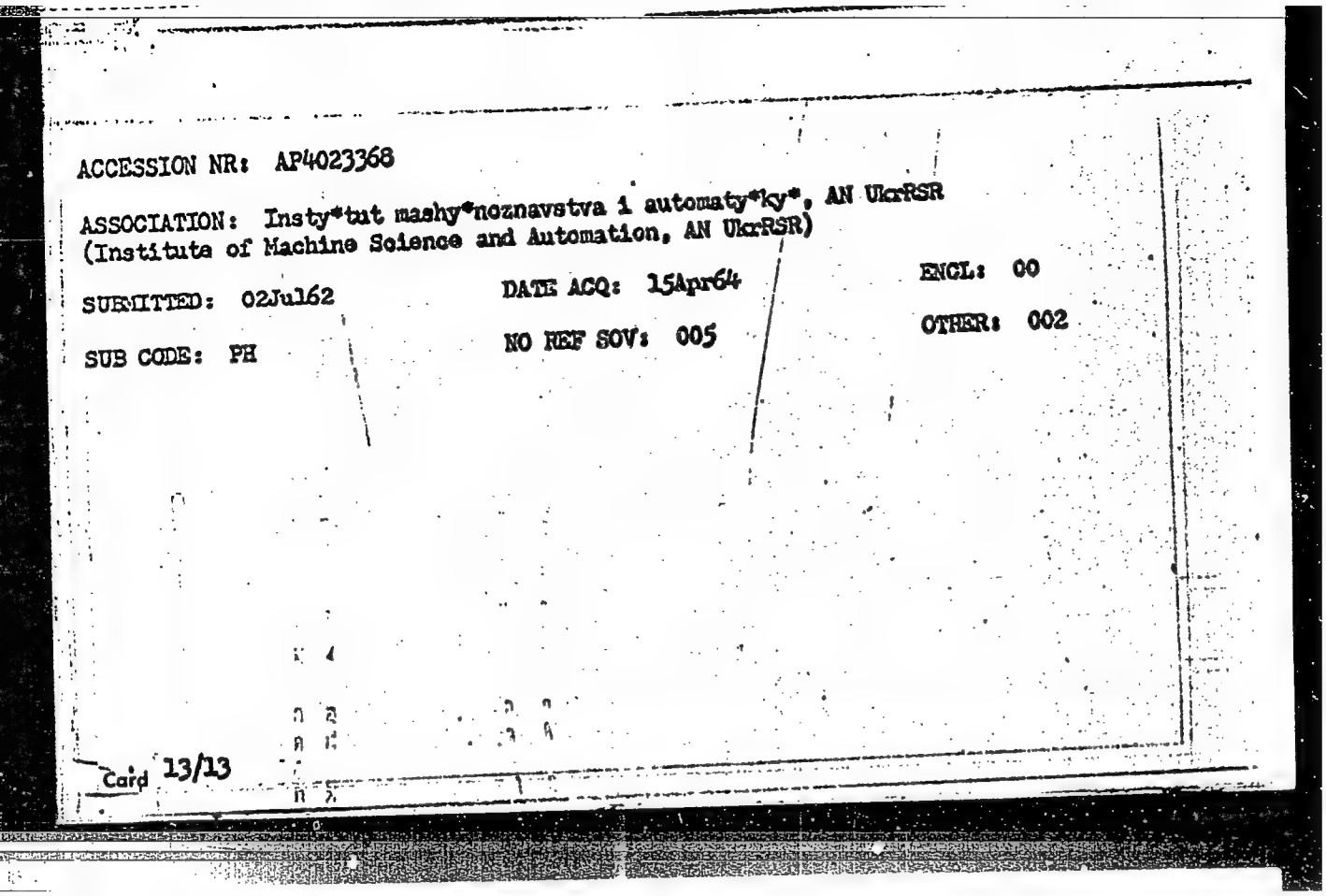
$$-\frac{2}{\pi r^3}\left[\frac{x^2-y^2}{\kappa r}K_1(\kappa r)+x^2K_0(\kappa r)\right]\Bigg\},$$

$$X_y=\pi N\left\{\kappa x\,\mathrm{Im}\left[\left(1-\frac{2}{(\pi\zeta)^2}\right)(H_1(\kappa\rho)-Y_1(\kappa\rho))+\frac{H_0(\kappa\rho)-Y_0(\kappa\rho)}{\kappa\rho}\right]+\right.$$

$$\left.+\frac{8xy(x^2-y^2)}{\pi\kappa^2r^6}+\frac{2xy}{\pi r^3}\left[\frac{2K_1(\kappa r)}{\kappa r}+K_0(\kappa r)\right]\right\},$$

where $\rho=x+iy$; $H_\nu(\kappa\rho)$ is a Struve function with real argument ($\nu=0; 1$); $Y_\nu(\kappa\rho)$ is a second type Bessel function with real argument; and $K_\nu(\kappa r)$ is a MacDonald function. Graphs are drawn for the distribution of temperature stresses along the coordinate axes under stationary heat conditions. Orig. art. has: 21 formulas, 4 figures.

Card 2/3



ACCESSION NR: AP4023368

ASSOCIATION: Insty*tut mashy*noznavstva i automaty*ky*, AN UkrRSR
(Institute of Machine Science and Automation, AN UkrRSR)

SUBMITTED: 02Jul62 DATE ACQ: 15Apr64 ENCL: 00

SUB CODE: PH NO REF SOV: 005 OTHER: 002

Card 13/13

PODSTRIGACH, Ya.S.; KOLYANO, Yu.M.

Heating of thin plates by heat sources involving heat transfer. Inzh.-fiz. zhur. 7 no.2:79-86 F '64. (MIRA 17:2)

1. Institut mashinovedeniya i avtomatiki AN UkrSSR, L'vov.

L 39747-65 EWT(m)/EWP(w)/EWA(d)/EPF ... EM S/0021/64/000/012/1585/1589

ACCESSION NR: AP5002240

AUTHOR: Kolyano, Yu. M.

... fields and thermal stresses ... the edge of which ... with a thin rod

... Dopovidi, no. 12, 1964, ...

... temperature field, thermal stress, ... plate, ... plate, thin rod

... first part of this article is ... of a plate ... reinforced with a ring ... the same ... $2\delta_k$ in width. The derived heat-exchange ...

... heat exchange in a reinforced edge ... characterized ... parameters of the reinforcing rod: the ... the ... conductivity λ^*_k, the reduced heat ... and the reduced

AP5002240

α_k^* It is indicated that the ... of Newtonian

... proceed immediately from this equation when all ... thermal para-
... support rod are equal to zero. The nonstationary temperature field

$$t = t_{0} ... \quad (2)$$

... stress are then determined in an unbounded circular plate rein-
... rod, in the absence of external load, for the case when the am-
... changes by some quantity in the initial moment of time and then
... Orig. art. has: 20 formulas

... Fizyko-mekhanichnyy instytut AN URSR (Institute of Physics and ...)

... ENCL: 00 ... SUB CODE: ...

... 002 OTHER: 002

AL'FIONOVA, O.A., inzh.; KOL'YANOV, V.V., inzh.; KRAVTSOV, N.S., inzh.

Modernizing construction windlasses. Mekh. stroi. 18 no.6:15-16 Je '61. (MIRA 14:7)

1. Saratovskiy zavod stroitel'nykh mashin.
(Winches)

DEKABRUN, I.I.; KOL'YANOV, Yu.N.; MKRTCHYAN, A.K.

Autodyne transmitters of nuclear magnetic resonance signals.
Izv. AN Arm.SSR.Ser.fiz.-mat.nauk 18 no.3:134-142 '65.
(MIRA 18:8)

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PILLE, E.R.; KOLYANOVA, I.S.

Pathogenesis of experimental poliomyelitis. Trudy Mosk. nauch.-issl. inst. virus. prep. 2:65-69 '61. (MIRA 17:1)

KOL'YANOVA, M. I,

USSR/Medicine - Influenza Feb 1948
Medicine - Panicillin

"Use of Penicillin in Influenza," Prof S. Ya. Kovman, Deputy, Preliminary Therapeutic Clinic, M. I. Kil'yanova, N. I. Romanenko, Ya. L. Gotlib, Preliminary Therapeutic Clinic, State Leningrad Pediatric Med Inst, Virusology Lab, Inst imeni Pasteur, 4 pp

"Klin Medits" Vol XXVI, No 2

Data collected from penicillin therapy for cases during 1946 Leningrad influenza epidemic. Answeres several questions: 1) What effect does penicillin therapy have on the course of an influenza epidemia? 2) Is it possible to avert an influenza epidemic by preventive inoculation of penicillin? 3) What effedt does penicillin have on patients already suffering from influenza? Deputy of Virusology Laboratory: N. N. Romanenko.

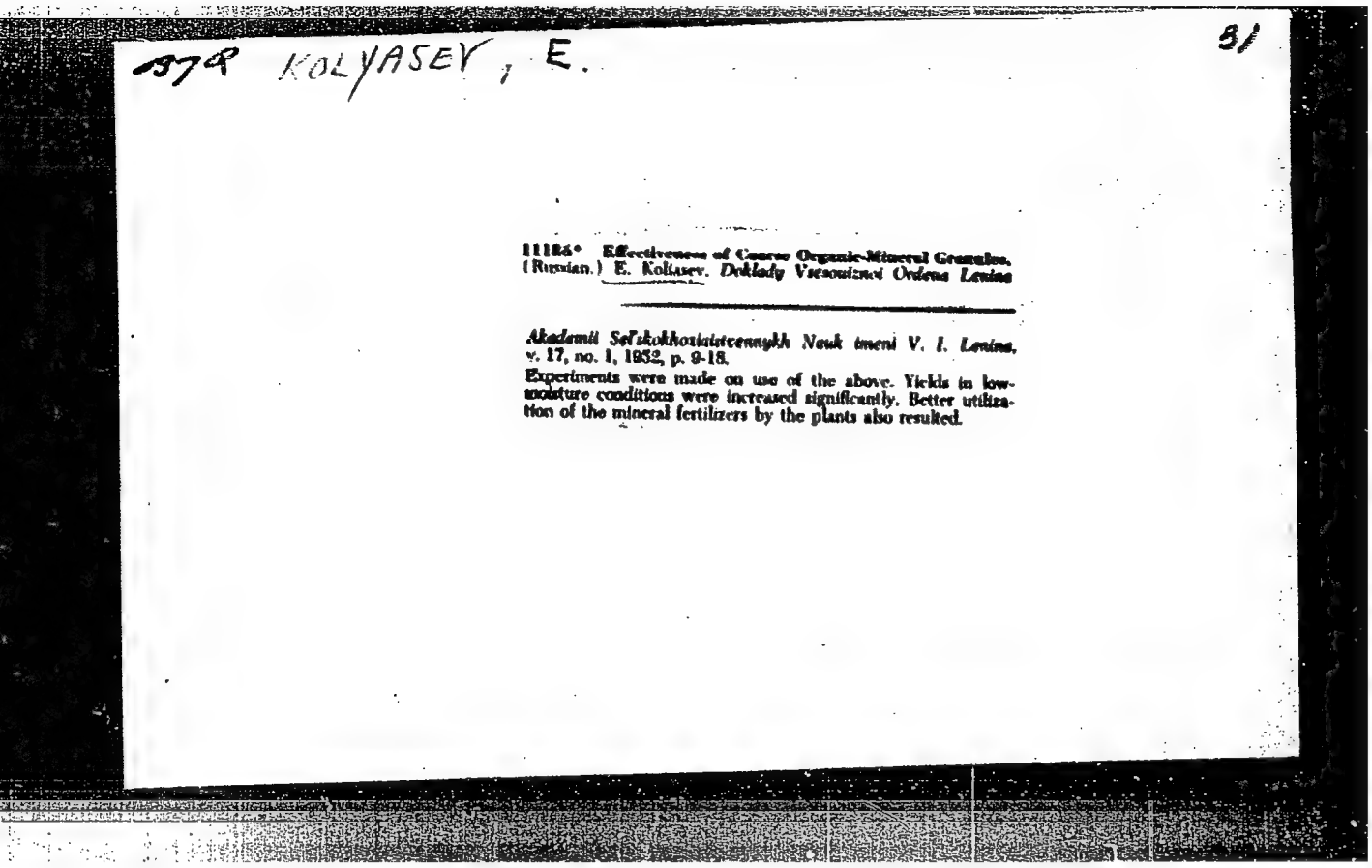
PA47T68

KOLYAPKIN, A. I.

Evaporation cooling of nonferrous metallurgical furnace elements. Biul. TSIIN tsvet. met. no.1:17-23 '58. (MIRA 11:4)
(Nonferrous metals--Metallurgy) (Metallurgical furnaces--Cooling)

KOLYAROVA, Lidiya Fedotovna, kand. sel'khoz. nauk; KANASH, S.S., akademik, otv. red.; BOYKO, A.N., red.; SOROKINA, Z.I., tekhn. red.

[Cottonseed production in the Uzbek S.S.R.] Semenovodstvo khlopchatnika v Uzbekskoi SSR. Tashkent, M-vo sel'skogo khoz.UzSSR, 1962. 59 p. (MIRA 17:1)



379 KOLYASEV, E.

31

11184* Effectiveness of Coarse Organic-Mineral Granules. (Russian.) E. Kolyasev. *Doklady Vsesoiuznoi Ordena Lenina*

Akademii Sel'skokhoziaistvennykh Nauk imeni V. I. Lenina, v. 17, no. 1, 1952, p. 9-18.

Experiments were made on use of the above. Yields in low-moisture conditions were increased significantly. Better utilization of the mineral fertilizers by the plants also resulted.

KOLYASEV, F. G.

"Measures Taken Against The Evaporation of Soil Moisture," Scientific Report of All-Union Phys-Agronom Institute for the Years 1942-43, Moscow: 1946 (4-16).
(Meteorologiya i Gidrologiya, No 6 Nov/Dec 1947)

SO: U-3218, 3 Apr 1953

AMS-AFD

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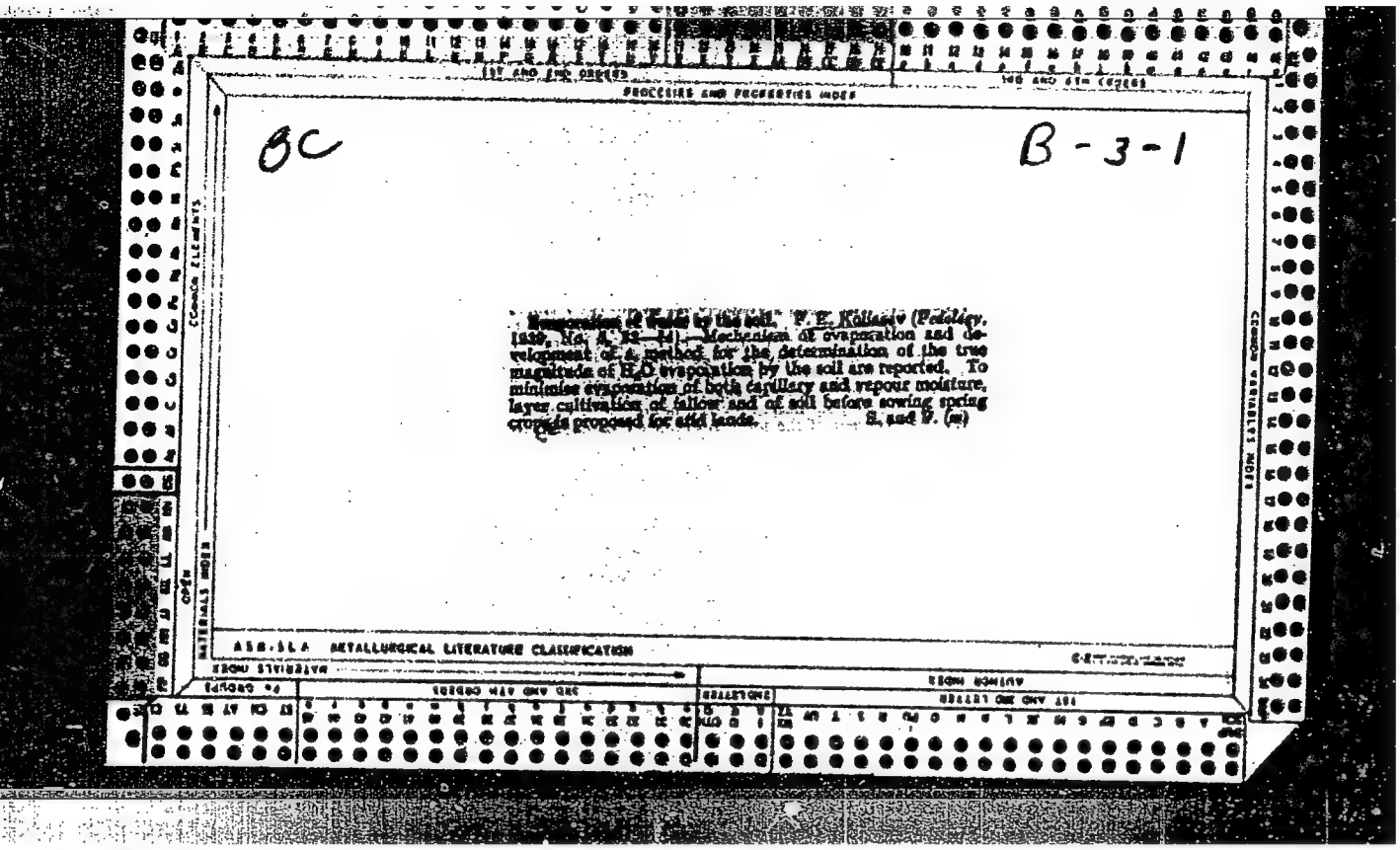
8D-143

1957

Kollasky, F. E. and Pivovarova, N. A., Uslovila kondensatsii vodianykh parov vozdukha. [Condensation of atmospheric water vapor.] *Meteorologiia i Gidrologiia*, No 7, 63-67, July 1957. 551.508.74

3 figs., 2 tables, ref. DLC—An experimental study describing investigations of the optimum conditions for condensation. A. P. ALEKSANDROV's method of recording the precipitation of dew is presented. In this method the light reflected from the mirror surface on which dew formed is measured with a selenium cell. Temperature variations of the mirror body are measured by means of special thermocouples soldered on the mirror. *Subject Headings*: 1. Condensation 2. Drosometers.



8C

B-3-1

Evaporation of water by the soil. P. E. Kolkunov (*Pochvoved.*, 1939, No. 4, 83—94).—Mechanism of evaporation and development of a method for the determination of the true magnitude of H_2O evaporation by the soil are reported. To minimise evaporation of both capillary and vapour moisture, layer cultivation of fallow and of soil before sowing spring crops is proposed for arid lands. S. and V. (m)

KOLYASEV, F. Ye.

"Factors of Water Movement in Soils"

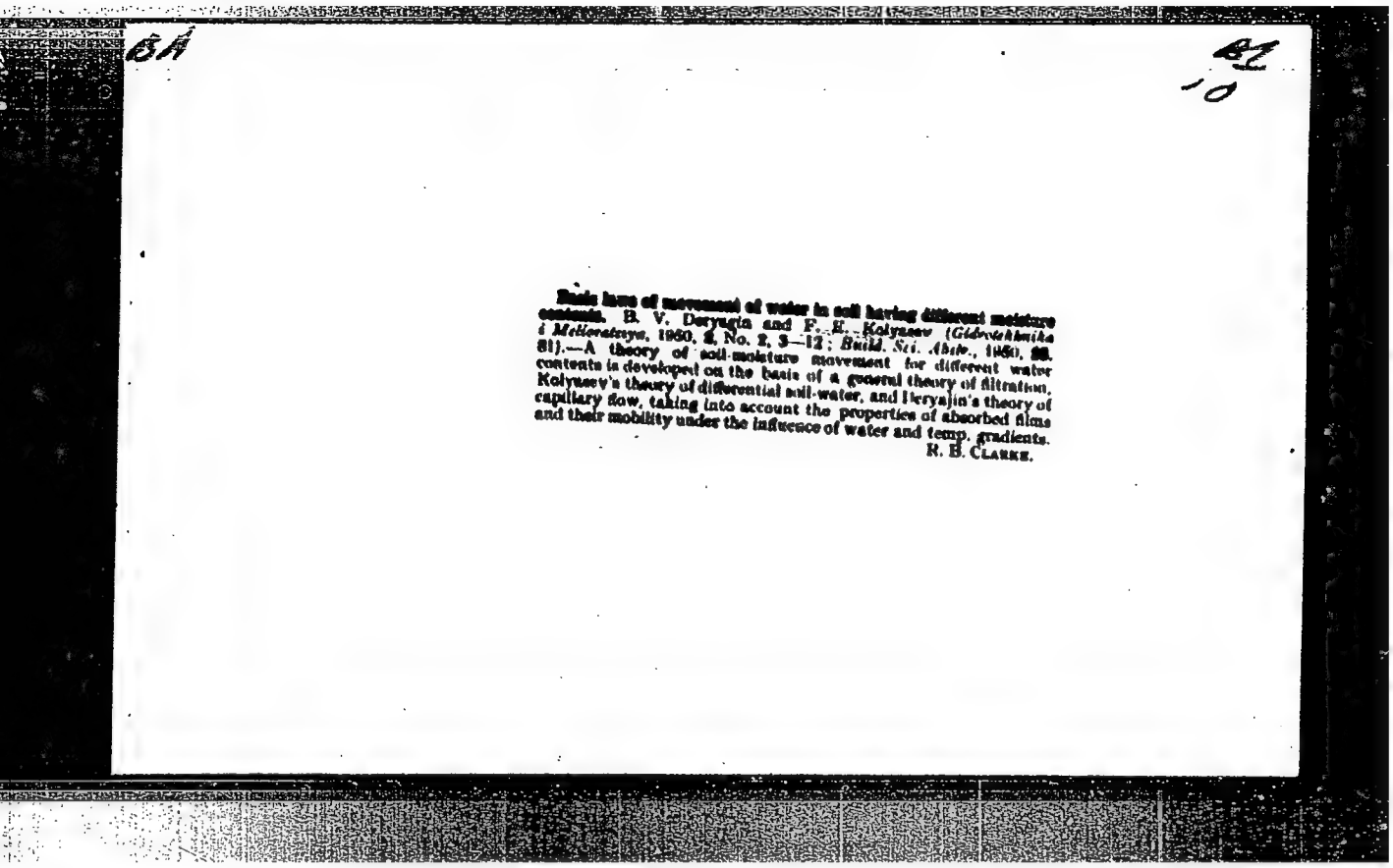
Pedology, No. 1, 1944

1. KOLYASOV, F. Ye.

2. USSR (600)

"Research Data on Water Movement in the Ground of varying Moisture Content", Sbornik trudov po agronomicheskoy fisike, Issue 4, Agricultural Press, 1948, (141 - 164)

9. Meteorologiya i Gidrologiya, No. 3, 1949.
[redacted] Report U-2551, 30 Oct 52



Basic laws of movement of water in soil having different moisture contents. B. V. Deryagin and F. E. Kolyasev (*Gidrotekhnika i Melioratsya*, 1960, **2**, No. 2, 3—12; *Build. Sci. Abstr.*, 1960, **33**, 81).—A theory of soil-moisture movement for different water contents is developed on the basis of a general theory of filtration, Kolyasev's theory of differential soil-water, and Deryagin's theory of capillary flow, taking into account the properties of absorbed films and their mobility under the influence of water and temp. gradients.

R. B. CLARKE.

USSR/Chemistry - Soils May/Jun 51

"Mechanism of the Reduction of Water Retention by the Soil," F. Ye. Kolyasev, M. P. Lysenko, Agrophys Inst, Acad Agr Sci imeni V. I. Lenin

"Kolloid Zhur" Vol XIII, No 3, pp 188-191

Studied dependence of adsorption of anion part of surface-active substances on soil factors. Found reducing water retention of solonetz, serozem, chernozem and other soils where reaction of soil soln is alk or nearly so requires artificial acidification of soil soln or use as intermediate adsorbents not of iron salts, but of those amphoteric compds which have isoelec point at high pH value.

183T18

KOLYASEV, F. Ye.

USSR/Chemistry - Surface Active Compounds Apr 52

"Waterproof Earth," Prof F. Ye. Kolyasev, Dr Agr Sci, Zhuchenkov, Cand Agr Sci

"Nauka i Zhizn'" No 4, pp 36, 37

Describes work done by scientists of the Water Lab, Agrophys Inst, All-Union Inst of Agr Sci imeni V. I. Lenin, on waterproofing earth, sand, peat, etc., with iron naphthenate (ferrous sulfate plus sodium napthenate). Points out the possibility of waterproofing the ground in connection with various types of construction work (particularly hydraulic construction, irrigation works, etc.) Earth treated in this manner becomes waterproof, resistant to freezing, resistant to the formation of lumps, and heat-insulating. The waterproof qualities are retained for a number of years.

221T15

KOLYASEV, F.Ye.; ZHUCHENKOV, K.K.; KHOLODOV, A.G.

Extensive testing of a device for measuring soil moisture under field conditions. Sbor.trud.po agron. fiz. no.5:34-47 '52.
(MIRA 11:7)

(Soil moisture-Measurement)

KOLYASEV, P.YE.

Tillage

Rolling the soil after seeding; Sov.agron. 10 no. 3, 1952.

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Uncl.

2

KOLYASEV, F.Ye.; ZHUCHENKOV, K.K., kandidat tekhnicheskikh nauk.

Using the water imperviousness (hydrophobia) of earth as a measure against filtration from canals and reservoirs. Gidr.i mel. 5 no.5:75-78 My '53. (MLRA 6:6)

(Soil percolation)

KOLYASEV, F.Ye.; GAL'KEVICH, G.Ya.

Means for improving heavy Podzolic soils. Sbor. trud.po agron.fiz. no.6:162-169 '53. (MIRA 11:7
(Podzol)

DERYAGIN, B. V., KOLYASEV, F. YE., AND MEL'NIKOVA, M. K.

Principal Laws Governing the Movement of Water in Soil Under Various Wetting

The authors generalize the problems developed in an earlier published work of theirs (Gidrotekhnika i melioratsiya, No. 2, 1950), and also present some new information. They give values of the "kinetic" specific surface of certain grounds and soils (determined by V. I. Krylova by measuring the resistance to movement of gases through them). They consider the earlier proposed equation for the determination of the velocity of motion of the wetting front (B. V. Deryagin, Kolloid. zhur. 8, No. 1-2, 1946), based on the empirical connection of Kozeny between permeability and porosity and on the assumption concerning the complete filling by liquid of the region behind the moving wetting front. The quantity "capillary motion" at the front of wetting is expressed by means of "Kinetic" specific surface, and not by meniscus radius (as done earlier). (RZhGeol, No. 4, 1955) Sb. tr. po agron. fizike, No. 6, 1953, 170-181.

SO: Sum. No. 744, 8 Dec 55 - Supplementary Survey of Soviet Scientific Abstracts (17)

KOLYASEV, F.Ye.; LYSENKO, M.P.

Reducing the absorption capacity of peat. Sbor. trud.po agron. fiz. no.6:194-196 '53. (MIRA 11:7)
(Peat)

KOLYASEV, F.Ye.; LEBEDEVA, V.A.

Condensation of water vapor with relation to the physical condition of the soil. Sbor.trud.po agron.fiz. no.6:197-207 '53. (MIRA 11:7)

(Soil moisture) (Condensation)

USSR/Physics - Electrical properties FD-3112

Card 1/1 Pub. 153 - 11/24

Author : Kolyasev, F. Ye.; Levin, S. L.

Title : Thermal and electrical properties of hydrophobic earths

Periodical : Zhur. tekh. fiz., 25, No 6 (June), 1955, 1053-1057

Abstract : In connection with the interest of industrial and agricultural enterprises in hydrophobic earth the authors deemed it necessary to investigate not only its water-insulating properties but also its heat insulating and electrical insulating properties, especially since the literature has absolutely no information on it, which makes difficult plans to utilize hydrophobic earths in constructions and hence prevents the introduction into the economy of simple means of water, heat and electric insulation developed by the Agrophysics Institute of the All-Union Academy of Agricultural Sciences imeni Lenin. The authors discuss the conditions and degree of moistening of hydrophobic earths, the heat insulating properties of hydrophobic soils for various moistures and densities, the electrical insulating properties of hydrophobic soils and peats. The authors conclude hydrophobic soils and peats can be utilized in various constructions and devices as electrical insulators under suitable conditions determining the amount of moisture. Five references.

Institution :

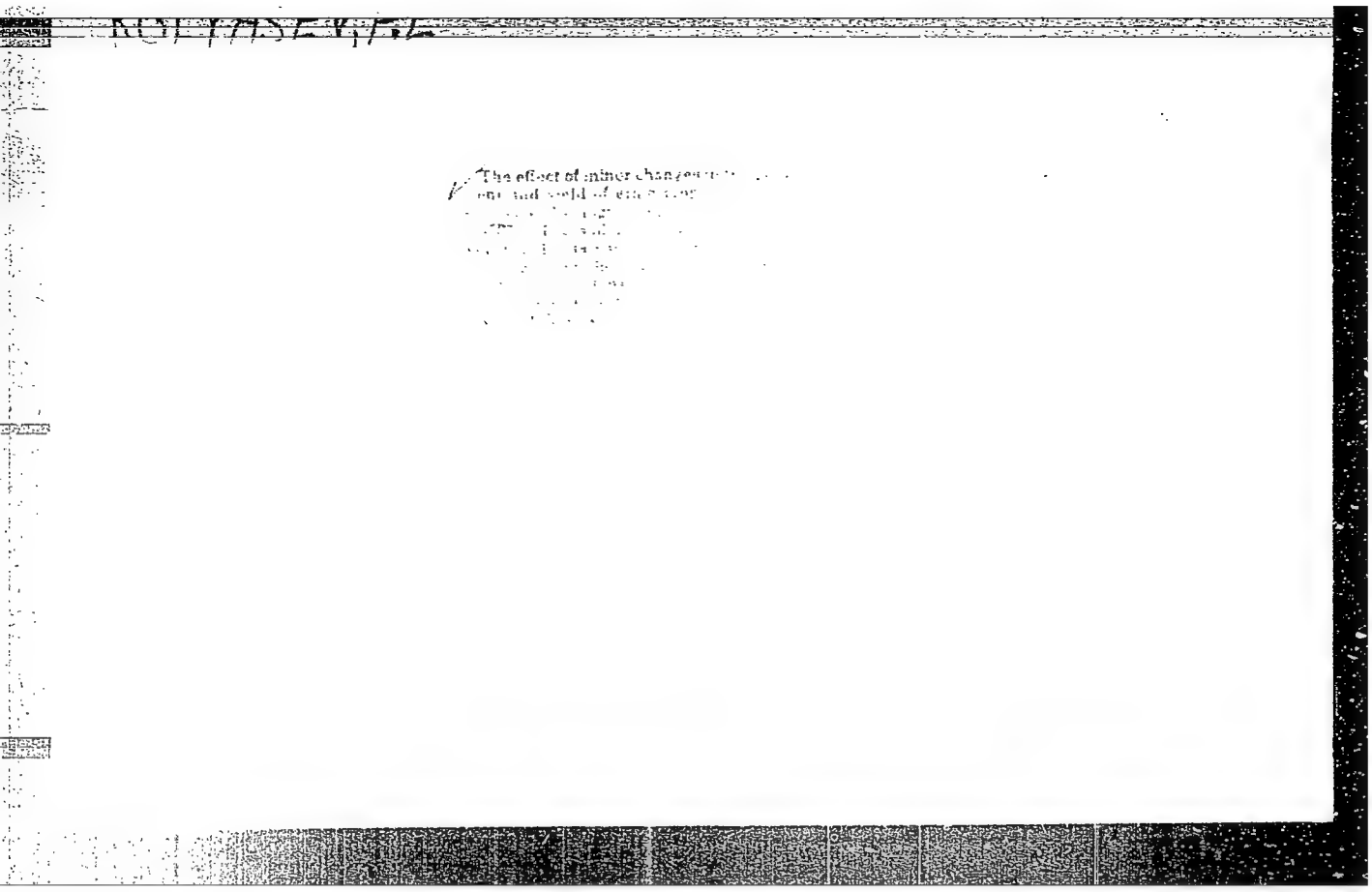
Submitted : June 5, 1954

KOLYASEV, I.Ye., doktor sel'skokhozyaystvennykh nauk; RASTEGAYEV, N.S., kandidat sel'skokhozyaystvennykh nauk; KONDAKOVA, R.S.

Mechanism of wetting a coarse organomineral granule and its effectiveness. Dokl.Akad.sel'khoz. 21 no.4:30-36 '56. (MLRA 9:8)

1. Agrofizicheskiy nauchno-issledovatel'skiy institut. Predstavlena akademikom A.F. Ioffe.

(Fertilizers and manures) (Soil moisture)



KOLYASEV, F. Ye

IOFFE, A.F., akademik, redaktor; SAMPYLOV, I.I., akademik redaktor; VERSHININ, P.V., redaktor; KOLYASEV, F.Ye., redaktor; CHUDNOVSKIY, A.F., redaktor; REVUT, I.B., redaktor; STEPANOV, L.N., redaktor

[Problems in agricultural physics] Voprosy agronomicheskoi fiziki. Pod obshchei red. A.F.Ioffe i I.I.Samoilova. Red. kollegiia P.V.Vershinin i dr. Leningrad, 1957. 327 p. (MIRA 10:6)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I.Lenina.
(Agricultural physics)

KOLYASEV F. YE.

COUNTRY : USSR
CATEGORY : Soil Science. Mineral Fertilizers. J

ABS. JOUR. : RZhBiol., No. 23 1958, No. 104461

AUTHOR : Kolyasev, F. Ye.
INST. : ~~Academy of Sciences~~, USSR
TITLE : Means of Increasing the Effectiveness of Mineral Fertilizers in Irrigation and Dry Farming

ORIG. PUB. : V sb.: Biol. osnovy oroshayem. zemled. M., AN SSSR, 1957, 493-505

ABSTRACT : At the agrochemical institute, vegetative and field experiments were carried out to test the effectiveness of various sized granules containing N, P, K and filled with peat or mulch. Observations on the water cycle in the granule showed that during the vegetative period, the amount of available moisture, particularly in the fertilizer granule, exceeds by 2-5 times the amount of moisture in the surrounding soil, both in fallow ground and under plants; the yield is correspondingly increased. The experiments also showed that the soil close to a granule contains more moisture. The effectiveness of large organic-mineral granules was confirmed

Card: 1/2

COUNTRY :
CATEGORY :

J

JOUR. : RZhBiol., No. 23 1952, No. 104461

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : in extensive production experiments. After fertilization by large granules, nutrients in sufficient quantity at all times enter the plants. Thanks to the protective action of the mulch and peat which are part of the large granules, N, P and K are conserved in them for a lengthy time in a form accessible for plants. The large organic-mineral granule contributes to the development of microbiological activity in the soil. The application of large organic-mineral granules is recommended when growing vegetable crops, potatoes and corn.--Ye. D. Chistova

Card: 2/2

COUNTRY : USSR
CATEGORY : Cultivated Plants. Cereals. M

ABS. JOUR. : RZhBiol., No.23, 1958, No. 104596

AUTHOR : Kolyasev, F. E., Appolitov, S. V.
INST. : Leningrad Agricultural Institute
TITLE : The Influence of Sowing Methods on the Conditions of the Development and the Yield of Grain Crops.

ORIG. PUB. : Zemledeliye, 1957, No. 2, 36-44

ABSTRACT : In 1949-1951, sowings of spring wheat Diamant and Golden Rain oats were carried out on the experimental field of Leningrad Agricultural Institute using different methods: drill, crosswise, strip, strip-crosswise, sowing in three directions (crosswise-diagonal) and sowing in large hills. The relative and absolute humidity of the air during daylight hours was higher on plots with a more uniform spacing of plants on the area (sowing in three directions,. The difference in the absolute humidity of the atmosphere comprised 1-1.5 millimeters. On sowings in hills, the maximum temperature of the air was 1.5-3° higher

Card: 1/3

COUNTRY :
CATEGORY :

ABS. JOUR. : RZhBiol., No. 1958, No.104596

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : than on sowings in three directions. Differences in ground surface temperature reached 2.5-3.5°, and at the depth of 10 centimeters - 1.5°. During the night hours the above-mentioned differences between the variants leveled out. The soil moisture content under the drill sowing was, as a rule, lower than under the sowing in three directions, and higher than under the sowing in large hills. The most favorable conditions are created by sowing in three directions and crosswise. On the plots of these variants, a higher germination of the seeds in the field was noted, and a lesser decline in the plants in the process of vegetation.

Card: 2/3

1

USSR / Soil Science. Physical and Chemistry Properties of Soils.

Abs Jour: Ref Zhur-Biol., No 21, 1958, 95717.

Author : Kolyasev, F. Ye.
Inst : ~~Not given.~~
Title : Method of Determining Soil Water Properties by the Curve of the Rate of Drying in Soil Samples.

Orig Pub: Byul. nauchno-tekhn. inform. po agron. fiz., 1957, No 3, 18-22.

Abstract: The method described includes the following. From an average soil sample of 2-3 g, a flat cake is prepared with a diameter of 26-28 mm, a thickness of 3-4 mm, with moisture 80% of full moisture capacity. A soil sample in an exsiccator with 54-58% H_2SO_4 is dried and weighed in the 12-20 minutes before its permanent weight.

Card 1/2

USSR/Soil Science - Physical and Chemical Properties of Soils. J

Abs Jour : Ref Zhur Biol., No 22, 1958, 100014

Author : Kolyasev, F.Ye.
Inst : -
Title : Water Mobility in the Soils and Means of Its Regulation

Orig Pub : Pochvovedeniye, 1957, No 4, 53-62

Abstract : With the aid of a device, constructed by the author, permitting the determination of the desiccation velocity of soil specimens, there has been examined the water mobility in the soil, depending upon the soil's mousture, mechanical and aggregate composition, density and other physical properties. Four breaking points on the curve of the desiccation velocity were obtained for the southern chernozem. According to the first point, it is possible to determine the moisture, approximating that of the field moisture capacity; according to the second point, the moisture of decreasing growth of plants or s

Card 1/3

Agrophysics Inst. AV Acad. Selskokhozyayst. Nauk im Lenin

USSR/Soil Science - Physical and Chemical Properties of Soils. J

Abs Jour : Ref Zhur Biol., No 22, 1958, 100014

regulation. The task was completed in the Agrophysical Institute in Leningrad. -- S.A. Nikitin

Card 3/3

TALISMAN, L.V.; KOLYASHKINA, G.M.; KALYAYEVA, N.V.; STEPANOV, R.G.

Pyrolysis of gas condensates of Krasnodar Territory wells.
Khim. i tekh. topl. i masel 8 no.7:1-6 Jl '63. (MIRA 16:7)

1. Kuybyshevskiy filial NIISS.
(Krasnodar Territory—Condensate oil wells)

KOLYASHITSKIY, STANISLAV MIKHAYLOVICH

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752.21
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BUKHGALTERSKIY UCHET V PROMYSLOVOY KOOPERATSII (ACCOUNTING IN PROFESSIONAL COOPERATIVES) MOSKVA, K.I.K., 1956.

327 P.

KOLYASHINSKIY, Stanislav Mikhaylovich; BLINDER, Ye.N., red.;
NATAPOV, M.I., tekhn. red.

[Accounting in producers' cooperatives] Bukhgalterskii uchet v promyslovoi kooperatsii. Moskva, KOIZ, 1955. 327 p.
(MIRA 16:7)

(Cooperative societies--Accounting)

TALISMAN, L.V.; KOLYASHKINA, G.M.; ASTRINA, A.D.

Pyrolysis of the commercial isobutane fraction and the effect of n-butylene admixture on the pyrolysis of a butane fraction. Khim. i tekh. i masel 6 no.11:35-42 N '61. (MIRA 14:12)

1. Novokuybyshevskiy filial Nauchno-issledovatel'skogo instituta sinteticheskogo spirta.
(Pyrolysis) (Propane)

YABLOKOV, V.A.; SHUSHUNOV, V.A.; KOLYASKINA, L.V.

Cumyl peracetate. Zhur.ob.khim. 32 no.8:2714-2716 Ag '62. (MIRA 15:9)

1. Gor'kovskiy gosudarstvennyy universitet.
(Peroxyacetic acid)

KOLYASKINA, Z.N.; PETROV, A.A.

Reactions of chlorine-containing telomers of diene hydrocarbons. Part 4: Reactionsof 1-chloro-5, 5-dimethyl-2-hexene and 1, 3-dichloro-5, 5-dimethyl-2-hexene with sodium acetoacetate and sodium malonate. Zhur.ob.khim. 30 no.10:3243-3247 O '61. (MIRA 14:4)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.
(Hexene) (Acetoacetic acid) (Malonic acid)

KOLYASKINA, Z.N.; YEGOROVA, A.M.

Reactions of chlorine-containing telomers of diene hydrocarbons. Part 12: Preparation of thiocyanates and isothiocyanates from the adducts of tertiary butyl chloride to bivinyl and chloroprene. Zhur. ob. khim. 34 no.9:2915-2917 S '64.

(MIRA 17:11)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

KOLYASIN, Ye. A., Engr. Cand. Tech. Sci.

Dissertation: "Analysis of the Operation of a Spindle Cotton Picker." Moscow Inst of Mechanization and Electrification of Agriculture imeni V. M. Molotov, 19 Mar 47.

SO: Vechernyaya Moskva, Mar, 1947 (Project #17836)

KOLYASIN, YE. A.

22520 Kolyasin, E. A. Dvigateli Vnutrennego Sgoraniya S Vozdushnym Okhlazhdeniem, Vypuskayemyme Zavodami S.-KH. Mashinostroyeniya. (Tekhn. Kharakteristiki Dvigatelei ZID-3 I Odv-300) Sel'Khozmashina, 1949, No. 7, S 15-17

SO: Letopis' No. 30, 1949

KOLYASIN, YE.

Irrigation Farming

Tractor for cultivation of cotton in irrigated districts. Khlopkovodstvo no. 1, Jan. 1952.

9. Monthly List of Russian Accessions, Library of Congress, September 1952, Uncl.

1. KOLYASIN, YE. A.

2. USSR (600)

4. Electric Driving

7. Electrification of farm machinery. Sel'khozmashina, no. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

KOLYASIN, Ye.A., kandidat tekhnicheskikh nauk.

Application of electric power units with cable traction. Sel'-khozmashina no.12:7-10 D '53. (MLRA 6:12)
(Agricultural machinery)

KOLYASIN, Ye.A.

Conference on cotton growing. Sel'khozmashina no.3:27 Mr '55.
(MLRA 8:4)

1. Viskhom.
(Tashkent--Cotton growing--Congresses)

KOLYASIN, Ye.A., kandidat tekhnicheskikh nauk; KANTOR, R.M., kandidat tekhnicheskikh nauk

Using an electric transmission in agricultural machines. Sel'khozmashina no.6:31-32 Je '55. (MLRA 8:8)
(Agricultural machinery)

KOLYASIN, Ye.A., kandidat tekhnicheskikh nauk.

Problem of electrifying mobile agricultural machinery.
Sel'khozmashina no.8:26-29 Ag '56. (MLRA 9:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sel'skokhozyaystvennogo mashinostroyeniya.
(Agricultural machinery) (Electricity in agriculture)

KOLYASIN, Ye.A., kandidat tekhnicheskikh nauk; Zhuk, Z.Ya., inzhener.

Electric cream separators, Sel'khozmashina no.9:10-12 S '56.
(Cream separators) (MLRA 9:11)

KOLYASIN, Ye.A., kand.tekhn.nauk

Mechanization of heavy work on livestock farms of the Czechoslovak and German Democratic Republics. Trakt. i sel'khozmash. no.1:37-41 Ja '58. (MIRA 11:4)

(Czechoslovakia--Farm mechanization)
(Germany, East--Farm mechanization)

KOLYASIN, Ye.A., kand.tekhn.nauk

Ways of developing the mechanization of livestock farms. Trakt. i sel'khozmash. no.5:17-19 My '58. (MIRA 11:6)
(Farm mechanization)

KOLYASIN, Ye.A., kand.tekhn.nauk

Analysing the performance of installations used for distributing forage and removing manure. Trakt. i sel'khozmash. no.5:36-40 My '58. (MIRA 11:6)
(Farm mechanization) (Conveying machinery)

KOLYASIN, Ye.A. [Koliasin, IE.A.], kand.tekhn.nauk

Possibilities for mechanizing heavy work on livestock farms.
Mekh. sil'. hosp. 11 no.5:3-4 My '60. (MIRA 14:3)
(Farm mechanization) (Stock and stockbreeding)

KOLYASKINA, Z.N.; PETROV, A.A.

Reactions of chlorine-containing telomers of diene hydrocarbons. Part 8: Synthesis of diene hydrocarbons with quaternary carbon atoms from products of addition of tertiary alkyl chlorides to bivinyl. Zhur.ob.khim. 32 no.4:1089-1095 Ap '62. (MIRA 15:4)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.
(Butadiene) (Alkyl chlorides)

AFANAS'YEV, Leonid Leonidovich; KOLYASINSKIY, Boleslav Stanislavovich; MASLOV, Aleksey Alekseyevich; KRUZE, I.L., nauchnyy red.; MANAKIN, N.V., red.; BODANOVA, A.P., tekhn. red.

[Garages and service stations; album of drawings]Garazhi i stantsii obsluzhivaniia avtomobilei; al'bom chertezhei. Moskva, Avtotransizdat, 1962. 104 p. (MIRA 16:1)
(Garages) (Service stations)

RESHETNIKOV, Nikolay Stepanovich,; KOLYASINSKIY, Z.S., red.; LESNYAKOV, F.I., red.; ZUYEVA, N.K., tekhn. red.

[Repair of IaAZ-204 and IaAZ-206 engines] Remont dvigatelei IaAZ-204 i IaAZ-206. Moskva, Nauchno- tekhn. izd-vo avtotransp. lit-ry, 1958. 247 p. (MIRA 11:11)
(Diesel engines--Maintenance and repair)

GURMAN, V.S., inzh.; KOLYASINSKIY, Z.S., inzh.; ZHELIKHOVSKAYA, A.I., inzh.; YEMEL'YANOV, A.Ya., inzh.; RYTCHENKO, V.I., kand.tekhn. nauk, inzh.; YEFREMOV, V.V., prof., doktor tekhn.nauk, zasluzhennyy deyatel' nauki i tekhniki, nauchnyy red.; STEPANOV, V.M., red.; GALAKTIONOVA, Ye.N., tekhn.red.; NIKOLAYEVA, L.N., tekhn.red.

[Specifications for repair, assembly, and testing of units and the ZIL-150 and ZIL-585 motortrucks during overhauling] Tekhnicheskie usloviia na remont, sborku i ispytanie agregatov i avtomobilei ZIL-150 i ZIL-585 pri kapital'nom remonte. Izd.2., perer. Moskva, Avtotransizdat, 1960. 169 p. (MIRA 13:7)

1. Moscow. Nauchno-issledovatel'skiy institut avtomobil'nogo transporta. 2. Gosudarstvennyy nauchno-issledovatel'skiy institut avtomobil'nogo transporta (for Kolyasinskiy, Zhelikhovskaya, Yemel'yanov, Gurman, Rytchenko).
(Motortrucks--Maintenance and repair)

GURMAN, V.S., inzh.; KOLYASINSKIY, Z.S., inzh.; ZHELIKHOVSKAYA, A.I., inzh.; YEMEL'YANOV, A.Ya., inzh.; RYTCHENKO, V.I., kand.tekhn. nauk; YEFREMOV, V.V., prof., doktor tekhn.nauk, zasluzhennyy deyatel' nauki, nauchnyy red.; MAL'KOVA, N.V., tekhn.red.

[Technical specifications for checking and sorting parts of the GAZ-51 motortruck and GAZ-93 dump truck in overhauling] Tekhnicheskie usloviia na kontrol'-sortirovku detalei avtomobilei GAZ-51 i GAZ-93 pri kapital'nom remonte. Moskva, Avtotransizdat, 1960. 463 p. (MIRA 13:12)

1. Moscow. Nauchno-issledovatel'skiy institut avtomobil'nogo transporta. 2. Gosudarstvennyy nauchno-issledovatel'skiy institut avtomobil'nogo trqnsporta (for Gurman, Kolyasinskiy, Zhelikhovskaya, Yemel'yanov, Rytchenko).
(Motortrucks--Maintenance and repair)

DONSKIY, D.I., kand.tekhn.nauk; ROZENBERG, L.I., kand.tekhn.nauk; GURMAN, V.S., starshiy inzh.; ZHELIKHOVSKAYA, A.I., starshiy inzh.; KOLYASINSKIY, Z.S., starshiy inzh.; LOBUSHEV, V.D., inzh.. Prinimali uchastiye: GLUKHOV, Yu.I., starshiy mekhanik; GEKOV, S.F., starshiy mekhanik. TIMOSHINA, V.A., red.; MAL'KOVA, N.V., tekhn.red.

[Technical specifications for the inspection and sorting of parts for the MAZ-200 and MAZ-205 motortrucks during overhauling] Tekhnicheskie usloviia na kontrol'-sortirovku detalei avtomobilei MAZ-200 i MAZ-205 pri kapital'nom remonte. Moskva, Avtotransizdat, 1960. 663 p. (MIRA 13:9)

1. Moscow. Nauchno-issledovatel'skiy institut avtomobil'nogo transporta. 2. Nachal'nik laboratorii remonta dvigateley Nauchno-issledovatel'skogo instituta avtomobil'nogo transporta (for Donskoy). 3. Nauchno-issledovatel'skiy institut avtomobil'nogo transporta (for all, except Timishina, Mal'kova). (Motortrucks--Maintenance and repair)

KOLYASINSKIY, Z., inzh.; Kirillov, V., inzh.

Crankshafts for M-21 engines of "Volga" automobiles. Avt. transp.39 no.1:34-35 Ja '61. (MIRA 14:3)
(Automobiles--Engines)

KOLYASINSKIY, Zigmund Stanislavovich; KONONOVICH, Anatoliy Vladimirovich; GRIBANOV, A.L., red.; BODANOVA, A.P., tekhn. red.

[Mechanization of the dismantling and assembling of trucks] Mekhanizatsiia razborki i sborki gruzovykh avtomobilei. Moskva, Avtotransizdat, 1962. 70 p. (MIRA 15:5)
(Motortrucks—Maintenance and repair)

GRECHINSKAYA, L.T., inzh.; DONSKOY, D.I., kand. tekhn. nauk; RYTCHENKO, V.I., kand. tekhn. nauk; ROZENBERG, L.I., kand. tekhn. nauk; KOLYASINSKIY, Z.S., inzh.; GURMAN, V.S., inzh.; LOBUSHEV, V.D., inzh.; YEMEL'YANOV, A.Ya., inzh.; LESNYAKOV, F.I., red.; BODANOVA, A.P., tekhn. red.

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KOLYASINSKIY, Zigmund Stanislavovich; KONONOVICH, Anatoliy Vladimirovich; SARKHOSH'YAN, Gurgen Nikitovich; GRINBERG, P.I., red.; GALAKTIONOVA, Ye.N., tekhn. red.

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(Motor vehicles--Maintenance and repair)
(Automation)

ZHELIKHOVSKAYA, Amaliya Isaakovna, inzh.; KOLYASINSKIY, Zigmund Stanislavovich, inzh.; BARANOV, A.Ya., red.; GALAKTIONOVA, Ye.N., tekhn. red.

[Efficient organization of motor vehicle repair work] Ratsional'naia organizatsiia avtoremontnogo proizvodstva. Moskva, Transport, 1964. 25 p. (MIRA 17:4)

KOLYASKIN, I.

Constructive initiative must be encouraged. Sov.profsoiusy 5 no.3: 64-65 Mr '57. (MLRA 10:4)

1. Starshiy inspektor Otdela proizvodstvenno-massovoy raboty Vsesoyuznogo TSentral'nogo Soveta professional'nykh soyuzov. (Machinery industry)

AUTHORS: Tyuryayev, I. Ya; Mukhina, T. N; Pavlova, V. B. and Kolyaskina, G. M. SOV/65-58-12-3/16

TITLE: The Reaction Rate During Dehydrogenation of Propane on a Stationary Catalyst (Skorost' reaktsiy pri degidrirovanii propana na nepodvizhnom katalizatore)

PERIODICAL: Khimiya i Tekhnologiya Topliv i Masel, 1958, Nr 12, pp 9 - 15 (USSR)

ABSTRACT: During the catalytic dehydrogenation of propane, a number of side reactions take place which lead to the formation of methane, ethylene, ethane and a small quantity of C_4 hydrocarbons, as well as to the formation and deposition of coke on the catalyst. This reduces the yield of propylene and decreases the activity of the catalyst. It is necessary to know the reaction rates of the basic and side reactions as the rate of the basic reaction determines the yield of propylene during one throughput, and the rate of the side reactions the yield of propylene on the decomposed propane. The catalytic dehydrogenation of propane can be described by three reactions: dehydrogenation, cracking and coke formation. The kinetics of dehydrogenation of the lower paraffins has been described by many authors (Refs. 3 - 7), and the kinetics of thermal and catalytic cracking of

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hydrocarbons was also investigated (Ref.1 and 9). The rate of coke formation on an aluminium-chrome catalyst was investigated during the dehydrogenation of n-butane. Propane was catalytically dehydrogenated in a quartz reactor (diameter equals 22mm). The temperatures were registered on the potentiometer PP. The catalyst granules had a diameter of 1 mm. 10 cm^3 of catalyst was used. The rates of dehydrogenation and cracking were defined at 550, 570 and 590°C when using practically pure propane, & the rate of coke deposition in a second series of experiments at 570, 580, 590, 600 and 610°C when using 94.9% propane. The dehydrogenation and cracking experiments were carried out for thirty minutes. The gas was analysed on a GIAP instrument and on a TsIATIM-51V device. During these experiments at decreased partial pressure, purified nitrogen was used as diluent. Results on the dehydrogenation of propane at atmospheric pressure are given in Table 1, and all further data necessary for calculating the coefficients of the kinetic equations in Figs.1, 2 and 3. Table 2: data for the graphical determination of the coefficients and values of these coefficients.

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The Reaction Rate During Dehydrogenation of Propane on a Stationary Catalyst

Equations for calculating the rates of dehydrogenation, cracking and carbon deposition during the dehydrogenation of propane are given, as well as the dependence of the coefficients of these equations on the temperature. These equations form the basis for calculating the yields of propylene with regard to propane (for one cycle), with regard to the decomposed propane, and also the poisoning of the catalyst during various process conditions. There are 4 Figures, 2 Tables and 10 References: 4 English and 6 Soviet.

ASSOCIATION: NIISS

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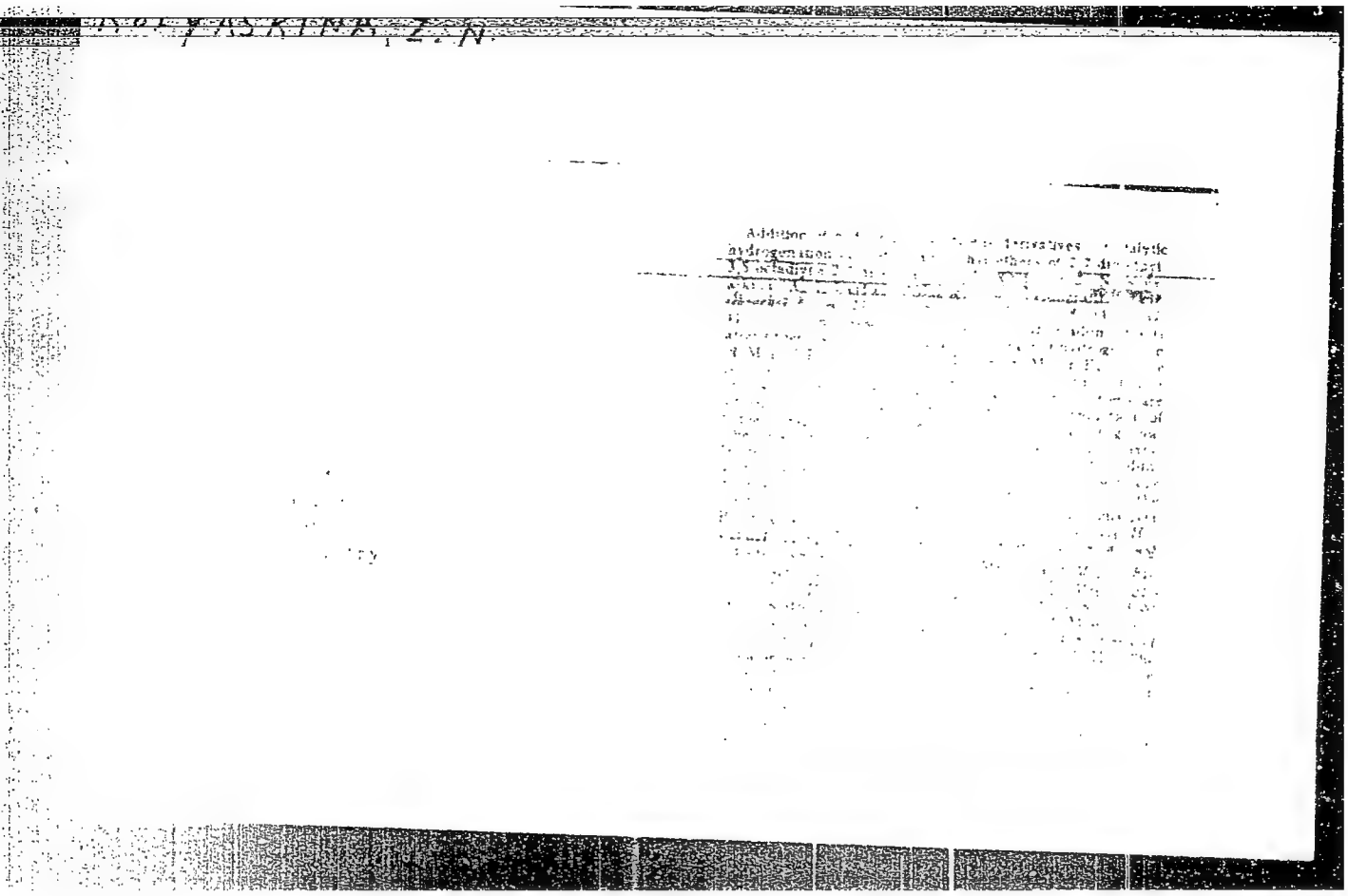
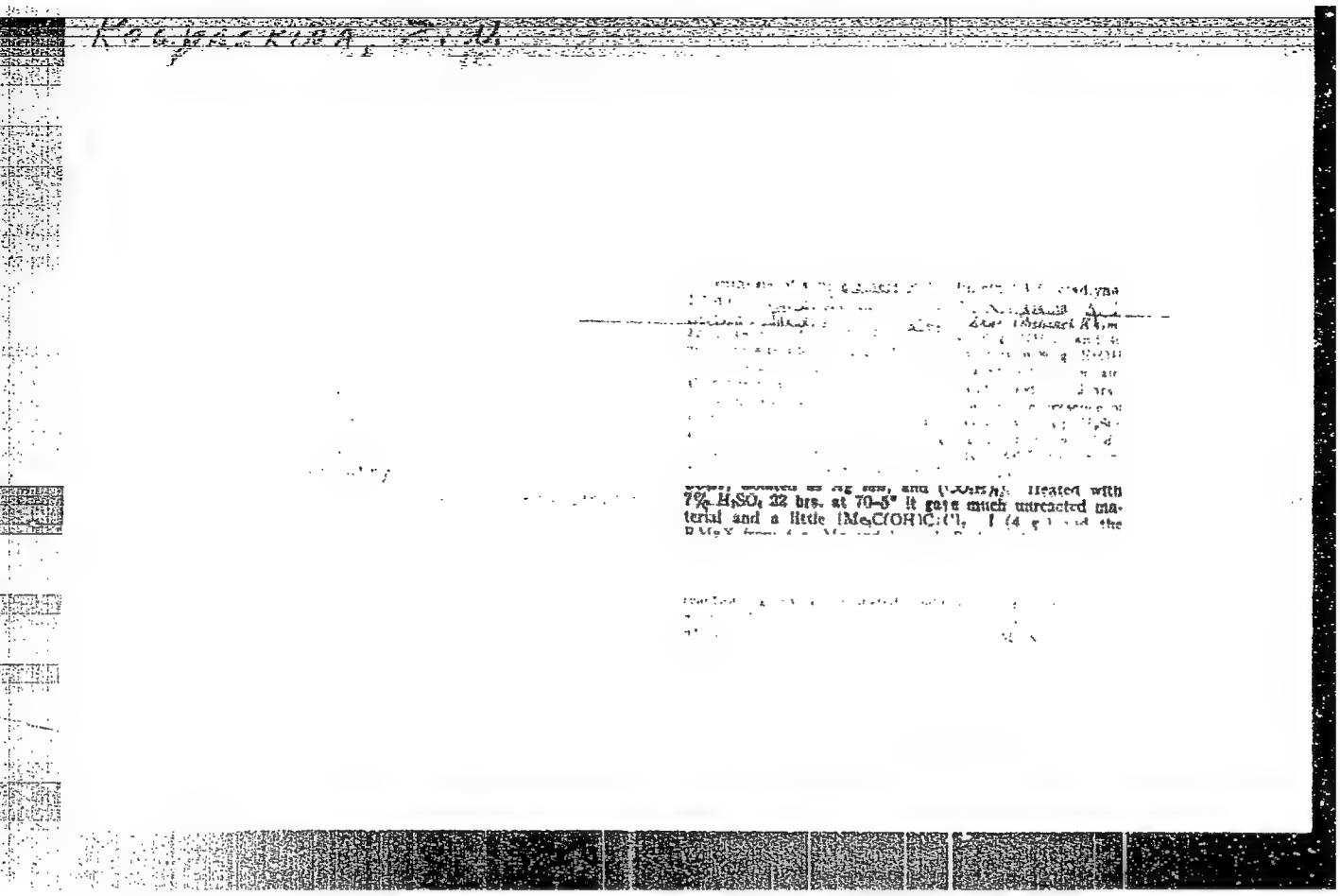
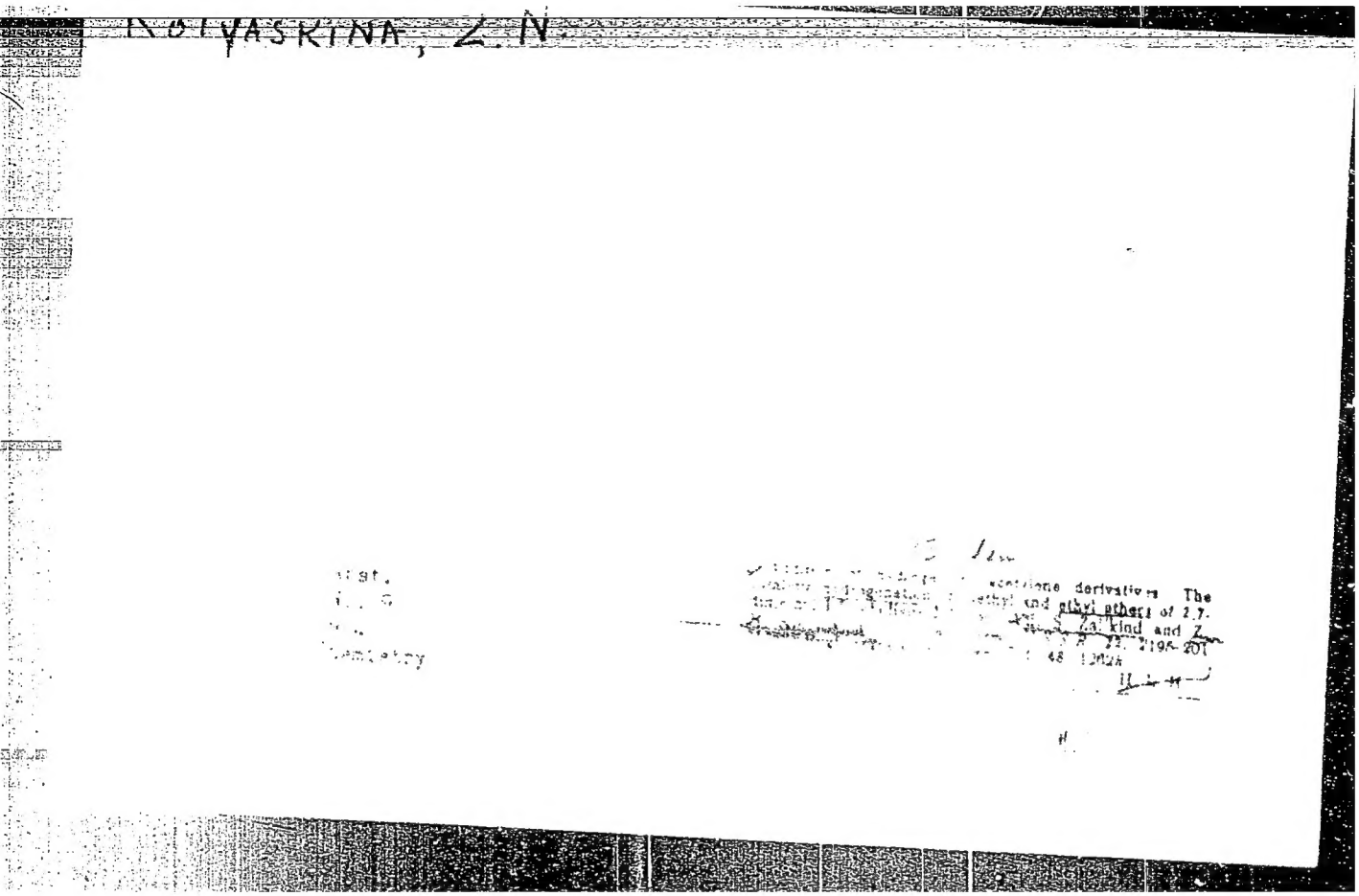
KONAREVA, Z.P.; KOLYASKINA, G.M.; KIRILLOV, M.P.; BORODULINA, G.A.; TALISMAN, L.V.

Pyrolysis of straight-run gasoline in an industrial furnace. Khim. prom. no.4:267-269 Ap '63. (MIRA 16:8)





7% H_2SO_4 22 hrs. at 70–5° it gave much unreacted material and a little [$Me_2C(OH)C_2(^1)$,



KOLYASKINA, Z. N.

4

Chem

The synthesis of simple ethers of 2,7-dimethyl-3,5-octadiyne-2,7-diol. Grig. S. Zal'kind and Z. N. Kolyaskina. *J. Gen. Chem. U.S.S.R.* 22, 2203-5(1952)(Engl. translation). —See *C.A.* 48, 12635. H. L. H.

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B005/B002

5.3200

AUTHORS: Petrov, A. A., Kolyaskina, Z.N.

TITLE: Reactions of Chlorine-containing Telomers of Diene Hydrocarbons. III. Production of Aldehydes and Ketones From the Products of the Addition of Tertiary Butyl Chloride to Divinyl and Chloroprene

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol. 30, No. 5, pp. 1450-1454

TEXT: The investigation of the telomerization reaction of diene hydrocarbons with saturated alkyl halides showed that only tertiary alkyl halides secure good yields of monomeric addition compounds of the type $R\text{-}C_4H_6\text{-}Cl$ (Ref. 1). The authors of the present paper investigated the conversion of these halogen-containing addition products in unsaturated aldehydes and ketones with a quaternary carbon atom. The scheme of this reaction is given. On the addition of tertiary butyl chloride to butadiene there arises 1-chloro-5,5-dimethyl-hexene-2. The structure of this product was clearly defined by analyzing its infrared spectrum (Fig. 1).

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Reactions of Chlorine-containing Telomers of Diene Hydrocarbons. III. Production of Aldehydes and Ketones From the Products of the Addition of Tertiary Butyl Chloride to Divinyl and Chloroprene

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B005/B002

The product of the addition of tertiary butyl chloride to chloroprene had already been obtained at the authors' laboratory in 1953, but the data concerning this compound had not been published. The analysis of the infrared spectrum (Fig. 1) showed that this product is 1,3-dichloro-5,5-dimethyl hexene-2. The two unsaturated chlorides mentioned were converted into the corresponding unsaturated aldehydes by the aid of Sommle's reaction (Ref. 3). In this manner, 5,5-dimethyl hexene-2-al (I) was obtained from 1-chloro-5,5-dimethyl-hexene-2, and 3-chloro-5,5-dimethyl hexene-2-al (II) was obtained from 1,3-dichloro-5,5-dimethyl hexene-2. Both aldehydes were obtained in the form of colorless oils with a hay-like smell, which turned into yellow on a longer standing time. Aldehydes are insoluble in water, but are readily soluble in the usual organic solvents. Fig. 2 shows the infrared spectra of the two aldehydes. Data obtained from the interpretation of spectra are given. Both aldehydes readily form semicarbazones and 2,4-dinitrophenyl hydrazones, which are well crystallizable. On the condensation of the mentioned aldehydes with

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